

Comparisons of Job Characteristics

Focus Occupation: Geological and Petroleum Technicians (19-4041)

Associated Occupation: Inspectors, Testers, Sorters, Samplers, and Weighers (51-9061)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 49

Focus Occupation: Geological and Petroleum Technicians (19-4041)

Associated Occupation: Inspectors, Testers, Sorters, Samplers, and Weighers (51-9061)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Production and Processing	6.0	11.9	7.0	<< Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 82

Focus Occupation: Geological and Petroleum Technicians (19-4041)

Associated Occupation: Inspectors, Testers, Sorters, Samplers, and Weighers (51-9061)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Operation Monitoring	6.6	8.0	8.1	0 Current skill level may be sufficient
Quality Control Analysis	5.9	7.9	6.3	< A higher skill level may be required
Troubleshooting	4.5	5.5	6.1	> Skill level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 94

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Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
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Oral Comprehension	12.5	12.2	12.6	0	Current ability level may be sufficient
Oral Expression	12.4	11.9	12.3	0	Current ability level may be sufficient
Near Vision	11.1	10.5	11.1	0	Current ability level may be sufficient
Written Comprehension	11.0	10.1	13.0	>>	Current ability level is likely more than sufficient
Category Flexibility	9.0	9.6	10.3	0	Current ability level may be sufficient
Deductive Reasoning	10.6	9.4	10.4	>	Current ability level is likely sufficient
Problem Sensitivity	11.1	9.2	10.3	>	Current ability level is likely sufficient
Inductive Reasoning	10.2	9.0	10.7	>	Current ability level is likely sufficient
Flexibility of Closure	7.8	8.5	9.9	>	Current ability level is likely sufficient
Auditory Attention	5.9	7.6	6.2	<	Some improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 74

Focus Occupation: Geological and Petroleum Technicians (19-4041)

Associated Occupation: Inspectors, Testers, Sorters, Samplers, and Weighers (51-9061)

Work Activities	Exclusivity of Activity
Collect samples for testing	58
Communicate technical information	4
Direct and coordinate activities of workers or staff	3
Distinguish colors	44
Install/connect electrical equipment to power circuit	57
Maintain records, reports, or files	5
Measure, weigh, or count products or materials	17
Operate industrial or nondestructive testing equipment	84
Perform safety inspections in industrial, manufacturing or repair setting	32
Prepare reports	8
Prepare safety reports	60
Read technical drawings	7
Record test results, test procedures, or inspection data	48
Understand engineering data or reports	48
Understand technical operating, service or repair manuals	6
Use computers to enter, access or retrieve data	3
Use hazardous materials information	35
Use knowledge of metric system	39
Use oral or written communication techniques	1
Use precision measuring tools or equipment	17
Use quality assurance techniques	61
Use spreadsheet software	18

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 31

Focus Occupation: Geological and Petroleum Technicians (19-4041)

Associated Occupation: Inspectors, Testers, Sorters, Samplers, and Weighers (51-9061)

Tools and Technologies	Exclusivity
Business function specific software	1
Computers	1
Content authoring and editing software	1
Electrochemical measuring instruments and accessories	9
Indicating and recording instruments	2
Industry specific software	1
Length and thickness and distance measuring instruments	2
Spectroscopic equipment	10
Temperature and heat measuring instruments	6
Viewing and observing instruments and accessories	4
Weight measuring instruments	7

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.